WHAT IS CLAIMED IS:

1. An optical connector storing an optical element and being implemented on a wiring substrate, the optical connector comprising:

a surface-implemented type optical element having an optical element body portion and an electrode portion provided in the optical element body portion;

a connector housing, which can store and hold the optical element so as to optically connect the optical element to an optical fiber held in an optical connector of an other party at a position apart from a main surface of the wiring substrate by a predetermined distance and which has an element-storing depression having an opening on the back;

a lid portion for closing the opening on the back of the element-storing depression; and

a lead frame mounted to the lid portion and having a connecting portion electrically connected to an electrode portion of an optical element stored in the element-storing depression on a first end and a soldering portion, which can be soldered to a wiring of the wiring substrate, on a second end.

2. The optical connector storing an optical element and being implemented on a wiring substrate, the optical connector comprising:

a surface-implemented type optical element having an optical element body portion and an electrode portion provided in the optical element body portion;

a connector housing, which can store and hold the optical element so as to optically connect the optical element to an optical fiber held in an optical connector of an other party at a position apart from a main surface of the wiring substrate by a predetermined distance and which has an element-storing depression having on a bottom side an opening to which the optical element can be inserted; and

a lead frame, provided on the inner radius surface of the element-storing depression, having a connecting portion electrically connected to the electrode portion of the optical element stored in the element-storing depression on a first end and a soldering portion, which can be soldered to a wiring of the wiring substrate, on a second end.

3. The optical connector according to Claim 1, wherein the lead frame has a forcing portion for press-forcing the connecting portion to the electrode portion of the optical element.

4. The optical connector according to Claim 2, wherein the lead frame has a forcing portion for press-forcing the connecting portion to the electrode portion of the optical element.

5. An optical connector storing an optical element and being implemented on a wiring substrate, the optical connector comprising:

a surface-mounted type optical element; and

a connector housing having an element-storing depression for storing and holding the optical element, which can be surface-mounted onto a first main surface of the wiring substrate, wherein

a bottom surface side of the connector housing has a lock-associating portion having a lock portion, which extends toward the bottom surface side and which can associate with a second main surface side of the wiring substrate, and

a support portion for supporting the lock piece at a position separated from the bottom surface side of the connector housing by the amount equal to the thickness of the wiring substrate.

6. The optical connector according to Claim 5, wherein the lock portion extends from the support portion in the connection direction of an optical connector of an other party.

7. The optical connector according to Claim 6, wherein a positioning associating portion is provided between the bottom surface side of the connector housing and the lock portion.

8. An optical connector storing an optical element and being implemented on a wiring substrate, the optical connector comprising:

an optical element having an element body portion and a connecting portion; and

a connector housing storing and holding the optical element so as to optically connect the optical element to an optical fiber held in an optical connector of an other party,

wherein the optical element is implemented on the wiring substrate, and the part of the wiring substrate where the optical element is implemented and the optical element are stored in the connector housing.

9. The optical connector according to Claim 8, wherein the connector housing contains a conductive material.

10. The optical connector according to Claim 8, wherein

the connector housing has an element-storing depression, which opens at the back, and the wiring substrate has an implementation-extending portion to be inserted to the element-storing depression, and the optical element is implemented to the implementation-extending portion and is stored together with the implementation-extending portion in an optical element storing portion by being inserted from the back.

11. The optical connector according to Claim 9, wherein

the connector housing has an element-storing depression, which opens at the back, and the wiring substrate has an implementation-extending portion to be inserted to the element-storing depression, and

the optical element is implemented to the implementation-extending portion and is stored together with the implementation-extending portion in an optical element storing portion by being inserted from the back.